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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-07-10-01** **Date: 12-07-18**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03
Agency	:	M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.
Customer Reference	:	EE(YNK.D)E-PMT-8/W.O/000136/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-18
Sample ID No	:	2018-07-10-01/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	10-07-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	865	865	8.65	91.4	80-100
26.5	2272	3137	31.37	68.6	55-90
9.5	1377	4514	45.14	54.9	35-65
4.75	1182	5696	56.96	43.0	25-55
2.36	2044	7740	77.40	22.6	20-40
0.425	543	8283	82.83	17.2	10-25
0.075	1265	9548	95.48	4.5	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	22.52%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
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Quality Manager

End of Report

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-08-06-01**	**Date: 07-08-18**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03	
Agency	:	M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.	
Customer Reference	:	EE(YNK.D)E-PMT-8/W.O/000136/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	06-08-18	
Sample ID No	:	2018-08-06-01/01	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of test	:	06-08-18	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	477	475
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.6	5.0
4	Average percentage	%	4.8	

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Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : CP-RW-2018-08-06-01 **Date: 07-08-18**

Sample ID No : 2018-08-06-01/01

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	4	4	0.8	99.2	90-100
19	22	26	5.5	94.5	71-95
13.2	84	110	23.1	76.9	56-80
4.75	121	231	48.4	51.6	38-54
2.36	100	331	69.4	30.6	28-42
0.3	97	428	89.7	10.3	7-21
0.075	22	450	94.3	5.7	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 475

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	3	3	0.63	99.4	90-100
19	25	28	5.89	94.1	71-95
13.2	88	116	24.42	75.6	56-80
4.75	122	238	50.11	49.9	38-54
2.36	99	337	70.95	29.1	28-42
0.3	95	432	90.95	9.1	7-21
0.075	21	453	95.37	4.6	2-8

Note:-
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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2018-07-26-01** **Date: 28-07-18**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03
Agency	:	M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.
Customer Reference	:	EE(YNK.D)E-PMT-8/W.O/000136/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-07-18
Sample ID No	:	2018-07-26-01/01
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	26-07-18

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.1	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	11.9		
Strength	Aggregate Impact Value	21.9	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.51	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.28	Maximum 2%	IS:2386 Part III

Note:-
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R KARTHIK RECHAN
Authorized Signatory
Quallity Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-07-26-01** **Date: 28-07-18**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03
Agency	:	M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.
Customer Reference	:	EE(YNK.D)E-PMT-8/W.O/000136/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	26-07-18
Sample ID No	:	2018-07-26-01/01
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of test	:	26-07-18

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.48	11.98	9KN(Min)
2	Marshal flow at 60°C, mm	3.49	3.18	2-4
3	Percent air Voids	4.72	4.57	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.88	14.71	13-15
5	Percent Voids filled with Bitumen(VFB %)	69.15	70.85	65-75
6	Density, g/cc	2.41	2.42	–

Note:-
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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-07-26-01** **Date: 28-07-18**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03
Agency	:	M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.
Customer Reference	:	EE(YNK.D)E-PMT-8/W.O/000136/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-07-18
Sample ID No	:	2018-07-26-01/01
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of test	:	26-07-18

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.7	Minimum Retained Coating 95%
2	99.0	1.0		
3	98.5	1.5		

Note:-
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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-07-16-01** **Date: 18-07-18**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03
Agency	:	M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.
Customer Reference	:	EE(YNK.D)E-PMT-8/W.O/000136/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-18
Sample ID No	:	2018-07-16-01/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	16-07-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	301.5	301.9
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.5	71.7
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	228.4	229.7
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.5
5	Aggregate impact value	(B/A)*100	24.0	23.7
6	Aggregate impact value (Mean of two tests)	Pecentage	23.9	

Note:-
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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-07-16-01** **Date: 18-07-18**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03
Agency	:	M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.
Customer Reference	:	EE(YNK.D)E-PMT-8/W.O/000136/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-18
Sample ID No	:	2018-07-16-01/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	16-07-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.4%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.9%	
Combined Flakiness and Elongation Index for WMM	22.3%	

Note:-
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Quality Manager

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-07-18-01** **Date: 20-07-18**

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03

Agency : M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.

Customer Reference : EE(YNK.D)E-PMT-8/W.O/000136/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-07-18

Sample ID No : 2018-07-18-01/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 18-07-18

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	309	309	2.8	97.2	95-100
22.4	2198	2507	22.8	77.2	60-80
11.2	2088	4595	41.8	58.2	40-60
4.75	2314	6909	62.8	37.2	25-40
2.36	1722	8631	78.5	21.5	15-30
0.6	618	9249	84.1	15.9	8-22
0.075	1367	10616	96.5	3.5	0-5

Note:-
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-07-18-01** **Date: 20-07-18**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03
Agency	:	M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.
Customer Reference	:	EE(YNK.D)E-PMT-8/W.O/000136/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-18
Sample ID No	:	2018-07-18-01/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	18-07-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.4%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.1%	
Combined Flakiness and Elongation Index for WMM	22.5%	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-07-20-01** **Date: 23-07-18**

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03

Agency : M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.

Customer Reference : EE(YNK.D)E-PMT-8/W.O/000136/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-07-18

Sample ID No : 2018-07-20-01/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 20-07-18

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	216	216	2.0	98.0	95-100
22.4	2198	2414	21.9	78.1	60-80
11.2	2109	4523	41.1	58.9	40-60
4.75	2588	7111	64.6	35.4	25-40
2.36	1569	8680	78.9	21.1	15-30
0.6	598	9278	84.3	15.7	8-22
0.075	1562	10840	98.5	1.5	0-5

Note:-

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Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2018-07-23-01** **Date: 24-07-18**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03
Agency	:	M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.
Customer's Reference	:	EE(YNK.D)E-PMT-8/W.O/000136/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-07-18
Sample ID No	:	2018-07-23-01/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	23-07-18

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

Note:-
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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-07-12-01** **Date: 14-07-18**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03
Agency	:	M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.
Customer Reference	:	EE(YNK.D)E-PMT-8/W.O/000136/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-18
Sample ID No	:	2018-07-12-01/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	12-07-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	384	384	3.84	96.2	80-100
26.5	2483	2867	28.67	71.3	55-90
9.5	1950	4817	48.17	51.8	35-65
4.75	1966	6783	67.83	32.2	25-55
2.36	1475	8258	82.58	17.4	20-40
0.425	1194	9452	94.52	5.5	10-25
0.075	970	10422	104.22	-4.2	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	22.03%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2018-07-16-01 **Date: 18-07-18**

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03

Agency : M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.

Customer Reference : EE(YNK.D)E-PMT-8/W.O/000136/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-18

Sample ID No : 2018-07-16-01/02

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 16-07-18

Oven Dry Weight : 11500 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	298	298	2.6	97.4	95-100
22.4	2078	2376	20.7	79.3	60-80
11.2	2314	4690	40.8	59.2	40-60
4.75	2098	6788	59.0	41.0	25-40
2.36	1987	8775	76.3	23.7	15-30
0.6	547	9322	81.1	18.9	8-22
0.075	678	10000	87.0	13.0	0-5

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2018-07-30-01** **Date: 02-08-18**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03
Agency	:	M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.
Customer Reference	:	EE(YNK.D)E-PMT-8/W.O/000136/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-18
Sample ID No	:	2018-07-30-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	30-07-18

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	9.8	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	10.4		
Strength	Aggregate Impact Value	21.5	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.6	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.2	Maximum 2%	IS:2386 Part III

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R KARTHIK RECHAN
Authorized Signatory
Quallity Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-07-30-01** **Date: 02-08-18**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03
Agency	:	M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.
Customer Reference	:	EE(YNK.D)E-PMT-8/W.O/000136/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-18
Sample ID No	:	2018-07-30-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	30-07-18

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.19	11.33	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.61	2-4
3	Percent air Voids	4.82	4.73	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.16	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	70.63	65-75
6	Density, g/cc	2.25	2.26	–

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-08-08-01** **Date: 09-08-18**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to balance road at Akshaya nagara and Muneshwara Layout in Ward No.03
Agency	:	M/S S.M.L.P Asphalts , Prop. B.B Umesh, No:385, Bettahalasuru Post, Bangalore North.
Customer Reference	:	EE(YNK.D)E-PMT-8/W.O/000136/2017-18
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	08-08-18
Sample ID No	:	2018-08-08-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	08-08-18

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	504	505
2	Weight of the sample After extraction	B	473	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.15	6.14
4	Average percentage	%	6.1	

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Lab ID : CP-RW-2018-08-08-01 **Date: 09-08-18**

Sample ID : 2018-08-08-01/01

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	59	67	14.2	85.8	70-88
4.75	133	200	42.3	57.7	53-71
2.36	68	268	56.7	43.3	42-58
1.18	34	302	63.8	36.2	34-48
0.6	23	325	68.7	31.3	26-38
0.3	28	353	74.6	25.4	18-28
0.15	35	388	82.0	18.0	12-20
0.075	65	453	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	13	13	2.7	97.3	90-100
9.5	57	70	14.8	85.2	70-88
4.75	131	201	42.4	57.6	53-71
2.36	67	268	56.5	43.5	42-58
1.18	37	305	64.3	35.7	34-48
0.6	27	332	70.0	30.0	26-38
0.3	25	357	75.3	24.7	18-28
0.15	31	388	81.9	18.1	12-20
0.075	48	436	92.0	8.0	4-10

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